IN THE CLAIMS

Please amend the claims as follows:

- 1.-12. (Cancelled)
- 13. (Withdrawn) An electronic system comprising:
 - a processor; and
 - a pre-packaged flip chip coupled to the processor, wherein the flip chip includes:
- a first semiconductor device having a first side and a second side, the first side having a first array of connection pads, the connection pads electrically coupled to circuits on the first semiconductor device;
- a second semiconductor device having a first side comprising a second array of connection pads, wherein the second side of the first semiconductor device is coupled to the first side of the second semiconductor device such that the second array of connection pads is adjacent the first array of connection pads;
- an adhesive layer covering the first side of the first semiconductor device and the first side of the second semiconductor device, the adhesive layer having an array of openings substantially aligned with one or more connection pads of either the first array of connection pads or the second array of connection pads; and
 - a conductive material substantially filling the array of openings.
- 14. (Withdrawn) The electronic system of claim 13, wherein the adhesive layer is comprised of one or more film layers.
- 15. (Withdrawn) The electronic system of claim 13, wherein the adhesive layer includes a curable, fluid material.
- 16. (Withdrawn) The electronic system of claim 13, wherein the conductive material is solder.

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- 17. (Withdrawn) The electronic system of claim 13, wherein the conductive material is cylindrical in shape.
- 18. (Withdrawn) The electronic system of claim 13, wherein the conductive material is sphere-shaped.
- 19. (Currently Amended) An electronic system comprising:
 - a processor; and
 - a pre-packaged flip chip coupled to the processor, wherein the flip chip includes:

a first semiconductor device having a first side and a second side, the first side comprising a first array of connection pads, the connection pads electrically coupled to circuits on the first semiconductor device;

an adhesive layer covering the first side of the first semiconductor device with a first surface of the adhesive layer contacting the first side, the adhesive layer having an array of openings substantially aligned with one or more connection pads of the first array of connection pads and having a chamfer, opposite the first surface of the adhesive layer, at each of the openings; and

a conductive material substantially filling the array of openings.

- 20. (Currently Amended) The electronic system of claim 19, wherein the second side of the first semiconductor device is opposite the first side and includes a protective material substantially covering the second side.
- 21. (Original) The electronic system of claim 19, wherein the adhesive layer is comprised of one or more film layers.
- 22. (Original) The electronic system of claim 19, wherein the adhesive layer includes a curable, fluid material.
- 23. (Original) The electronic system of claim 19, wherein the conductive material is solder.

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- (Original) The electronic system of claim 19, wherein the conductive material is 24. cylindrical in shape.
- (Original) The electronic system of claim 19, wherein the conductive material is sphere-25. shaped.
- (Withdrawn) An electronic system comprising: 26.
 - a processor; and
 - a flip chip coupled to the processor, wherein the flip chip includes:

a die having an active side and a back side, the back side opposite the active side, the active side comprising an array of connection pads, the connection pads electrically coupled to circuits on the die;

an adhesive layer covering the active side of the die, the adhesive layer having an array of openings substantially aligned with one or more connection pads of the array of connection pads;

- a conductive material substantially filling the array of openings;
- a protective coating on the back side of the die; and
- a support coupled to the die, the support having an array of conductors substantially aligned with the one or more connection pads of the array of connection pads.
- 27. (Withdrawn) The electronic system of claim 26, wherein the adhesive layer is an elastomer.
- (Withdrawn) The electronic system of claim 26, wherein the adhesive layer is a 28. thermoplastic material.
- (Withdrawn) The electronic system of claim 26, wherein the adhesive layer is a 29. thermoset material.

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- 30. (Withdrawn) The electronic system of claim 26, wherein the adhesive layer is a pressure-sensitive material.
- 31. (Withdrawn) The electronic system of claim 26, wherein the protective coating is an epoxy.
- 32. (Withdrawn) An electronic system comprising:
 - a processor; and
 - a flip chip coupled to the processor, wherein the flip chip includes:

a first die having an active side and a back side, the active side of the first die having a first array of connection pads, the connection pads electrically coupled to circuits on the first die;

a second die having an active side and a back side, the active side of the second die having a second array of connection pads, wherein the back side of the first die is coupled to the active side of the second die such that the second array of connection pads are accessible and the first array of connection pads are accessible;

an adhesive layer covering the active side of the first die and the active side of the second die, the adhesive layer having an array of openings providing access with one or more connection pads of either the first array of connection pads or the second array of connection pads;

a conductive material substantially filling the array of openings; and a protective coating on the back side of the second die.

- 33. (Withdrawn) The electronic system of claim 32, wherein the conductive material is conductive paste or conductive gel that hardens upon curing.
- 34. (Withdrawn) The electronic system of claim 32, wherein the adhesive layer includes a material that is applied as a fluid and hardens upon curing.

- (Withdrawn) The electronic system of claim 32, wherein the conductive material is 35. column-shaped.
- (Withdrawn) The electronic system of claim 32, wherein the conductive material 36. comprises one or more sphere-shaped objects.
- (Withdrawn) The electronic system of claim 32, wherein the back side of the first die 37. includes a bonding layer.
- (Withdrawn) An electronic system comprising: 38.
 - a processor; and
 - a flip chip coupled to the processor, wherein the flip chip includes:

a first die having a first side and a second side, the first side comprising a first array of connection pads, the connection pads electrically coupled to circuits on the first die;

a second die having a first side comprising a second array of connection pads, wherein the second side of the first die is coupled to the first side of the second die such that the second array of connection pads are accessible and the first array of connection pads are accessible;

an adhesive layer covering the first side of the first die and the first side of the second die, the adhesive layer having an array of openings substantially aligned with both the first array of connection pads and with the second array of connection pads, wherein the adhesive layer forms a mating surface adapted to attach to a support; and

a conductive material substantially filling the array of openings.

- (Withdrawn) The electronic system of claim 38, wherein each opening of the array of 39. openings is chamfered at the mating surface.
- (Withdrawn) The electronic system of claim 38, wherein the conductive material is flush 40. with the mating surface.

(Withdrawn) The electronic system of claim 38, wherein the conductive material 41. protrudes beyond the mating surface.

- (Withdrawn) The electronic system of claim 38, wherein the conductive material is 42. recessed within the mating surface.
- (Withdrawn) The electronic system of claim 38, wherein the conductive material is 43. column-shaped.
- (Withdrawn) The electronic system of claim 38, wherein the conductive material 44. includes one or more sphere-shaped objects.
- 45. (Withdrawn) An electronic system comprising:
 - a processor; and
 - a flip chip coupled to the processor, wherein the flip chip includes:

a first die having an active side and a back side, the active side of the first die having a first array of connection pads, the back side of the first die having a bonding layer, the connection pads electrically coupled to circuits on the first die;

a second die having an active side and a back side, the active side of the second die having a second array of connection pads, wherein the bonding layer of the back side of the first die is coupled to the active side of the second die such that the second array of connection pads are accessible and the first array of connection pads are accessible, wherein one or more connection pads of the second array are interconnected with one or more connection pads of the first array;

an adhesive layer covering for the active side of the first die and the active side of the second die, the adhesive layer having an array of openings substantially aligned with both the first array of connection pads and with the second array of connection pads, wherein the adhesive layer forms a mating surface; and

a conductive material substantially filling the array of openings; and a support to which the adhesive attaches.

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46. (Withdrawn) The electronic system of claim 45, wherein the conductive material is conductive paste or conductive gel that hardens upon curing.

- 47. (Withdrawn) The electronic system of claim 45, wherein the adhesive layer includes a material that is applied as a fluid and hardens upon curing.
- 48. (Withdrawn) The electronic system of claim 45, wherein the conductive material is recessed within the mating surface.
- 49. (Withdrawn) The electronic system of claim 45, wherein the adhesive layer is a pressure-sensitive material.
- 50. (Withdrawn) The electronic system of claim 47, wherein the flip chip includes three or more dice, each die having an active side such that the adhesive layer provides a covering for the active side of each die.
- 51. (New) The electronic system of claim 19, wherein the adhesive layer includes an elastomer.
- 52. (New) The electronic system of claim 19, wherein the adhesive layer includes a thermoplastic material.
- 53. (New) The electronic system of claim 19, wherein the adhesive layer includes a thermoset material.
- 54. (New) The electronic system of claim 19, wherein the adhesive layer includes a pressure-sensitive material.
- 55. (New) The electronic system of claim 20, wherein the protective coating includes an epoxy.

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- 56. (New) The electronic system of claim 19, wherein the conductive material includes a conductive paste that hardens upon curing.
- 57. (New) The electronic system of claim 19, wherein the conductive material includes a conductive gel that hardens upon curing.
- 58. (New) The electronic system of claim 19, wherein the conductive material is column-shaped.
- 59. (New) The electronic system of claim 19, wherein the second side of the first semiconductor device includes a bonding layer.
- 60. (New) The electronic system of claim 19, wherein the conductive material is flush with a surface of the adhesive layer opposite the first surface of the adhesive layer.
- 61. (New) The electronic system of claim 19, wherein the conductive material protrudes beyond a surface of the adhesive layer opposite the first surface of the adhesive layer.